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| Heart | Blood |
| Blood vessels | Arteries |
| Veins | Lungs |
| Systemic circuit | Oxygenated |
| De-oxygenated | Pulmonary circuit |
| Oxygen | Haemoglobin |
| Nutrients | Waste |
| Carbon dioxide | Red blood cells |
| Capillaries | White blood cells |
| Plasma | Platelets |
| Atrium | Ventricle |
| Valve | Septum |

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| --- | --- |
| Heart | The heart contains four chambers and the blood passes through it twice. |
| Blood vessels | These carry the blood around the body |
| Veins | These carry blood away from the heart |
| Systemic circuit | This system carries blood from the lungs to the rest of the body |
| De-oxygenated | When the oxygen is removed from the blood around the body the blood becomes de-oxygenated |
| Oxygen | This gas is required by the muscles in the body |
| Nutrients | These come from the food we eat and are transported around the body in the blood |
| Carbon dioxide | This is the waste gas from our bodies which is carried in the blood back to the lungs |
| Capillaries | These are the very small vessels in the muscles |
| Plasma | This is the liquid component of the blood |
| Atrium | The two atria collect the blood |
| Valve | This ensures the blood only flows one way |
| Blood | Blood transports oxygen and nutrients to the body and removes waste products |
| Arteries | These carry blood away from the heart |
| Lungs | The lungs are not part of the circulatory system, but it is here that oxygen enters the blood and carbon dioxide is removed |
| Oxygenated | Oxygenated blood contains oxygen which enters the blood in the lungs |
| Pulmonary circuit | This part of the system carries the blood to the lungs to be oxygenated |
| Haemoglobin | These carry the oxygen |
| Waste | Some waste comes from the food we eat, and some is from the processes carried out in our bodies |
| Red blood cells | These contain haemoglobin |
| White blood cells | These are part of the immune system and contain antibodies |
| Platelets | These clump together to form blood clots |
| Ventricle | The two ventricles pump the blood |
| Septum | This separates the two halves of the heart |